THE MINING CONGRESS JOURNAL

INDEX TO VOLUME 10 January to December, 1924

GENERAL INDEX OF FEATURE ARTICLES

Accounting for Metal Mines, Stand-		Coal Shortage Not Possible, Harry		Income Tax Problems, Intelligent	
ardized, H. H. Miller	431	N. Taylor	69	Law making the Only Calatin	
Amador County-Home of Big Gold		Coeur D'Alene Mining District,	00	Law-making the Only Solution	100
Mines, Harold Tallon	317	Early Days of the, Eugene		for, McK. W. Kriegh 4	103
American Mining Congress, Pur-	OI.	Thomas	404	Income Tax Regulations, The New,	
poses and Achievements of, H. W.		Colorado Minerals, Growth and Pos-	202		535
	497	sibilities of	392	Increasing Lump Coal Production	
Seaman	201	Colorado River Basin, Development	004	by Cushioned Blasting, J. H. Hor-	
Warrings	33		224	пск, Jr 3	329
Warriner	40.40	of	112	Industrial Cooperation, Hon. James	
Appropriate Droducer of Mineral	31.2	Cooperation in Industry, Samuel Rea		J. Davis	80
Arizona—Producer of Mineral Wealth	200	Cripple Creek The Awakening of	402	Industrial Cooperation and Common	
Better Relationship Between Em-	000	Cripple Creek, The Awakening of "Days of Old—Days of Gold," Bert	400	Sense 2	245
please and Empleye William I		F. Hews	296	Industrial Cooperation, Bringing	
ployer and Employe, William J.	938	Days of '49 in the Gold Fields of	000	About, Sam A. Lewisohn 4	416
Biggest Mining Event of 1924, The	215	California, J. E. Taylor	218	Industrial Peace, One Way to 2	243
Bituminous Coal and American In-	210	Dead Reckoning in Coal, George H.	M.LO	Industrial Relations, Robert E.	
dustry, Harry L. Gandy	497	Cushing	114	Tally	117
Bituminous Coal Industry, The,	-141	Depletion and Depreciation Under	444	Industrial Relations, The Keystone	
F. R. Wadleigh	198	the 1924 Revenue Act, McK. W.		of, Louis S. Cates	237
Bituminous Mining Operations, Con-	100	Kriegh	155	Industrial Standardization During	201
solidations of, John C. Brydon	202	Double Tracked Road to Coal Suc-	100	1923, Progress of, A. W. Whitney	107
Blasting a New Face on Mother	202		469		TOI
Nature, Dr. Charles E. Munroe	167	Drilling and Blasting, Robert E.	100	Interstate Commerce Commission Report Reviews Rail Situation	10
Blasting Coal, Efficiency of Different	401		167		12
Methods of, J. E. Tiffany and C.		Drilling Machines and Drill Steel,	101	Legislative Review, 14, 86, 122, 161,	001
W Molson	330		181	210, 255 and	321
W. Nelson	000	Standardization of, C. B. Officer. Drilling Machines and Drill Steel,	LUL	(See also "National Legislation")	
Crawshaw	327	Standardization of, R. T. Murrill	178	Locomotive Cranes, Standardization	
Bonus Methods, The United Verde	021	Dry Cleaning Process for Coal	311	of, J. C. Wheat	171
Copper Company's, W. V. DeCamp	541	Education and Industrial Unrest,	OLA	Lump Coal and Better Blasting	
British Columbia, The Mining Indus-	0.11	J. S. Lutes	417	Methods, H. C. Adams	328
try of, Hon. William Sloan	KGS	Education of a Mining Engineer,	AA	Mechanical Loading, Advantages	
Bunker Hill and Sullivan Mine,	900	S. J. Kidder	301	and Disadvantages	267
History of Discovery	406	Electrical Men, Problems of Mine.	263	Message of President Coolidge to	
History of Discovery	400	Electricity Safety in Underground	200	Sacramento Convention	495
Big Gold Mines, Harold Tallon	217	Electricity, Safety in Underground Use of, J. B. Johnson	475	Message of Secretary of Commerce	
California, Colorful Days of '49 in	OLI	Electric Shovel Standardization,	210	Hoover to Sacramento Convention	496
the Gold Fields of, J. E. Taylor	218	Harvey T. Gracely	173	Mine Drainage, Standardization of,	
California History of the Vuha	210	Elimination of Waste Through Stan-	2.0	John W. Hallock	46
California, History of the Yuba District, Frank H. Probert	554	dardization, C. B. Lakenan	553	Mine Drainage, Standardization of.	
California's Mineral Industry, Lloyd	001	Fundamentals of Shale, Delos D.	000		165
	389	Potter	106	Mine Drainage, Standardization of,	
L. Root	000	General Land Office, The Mining In-			166
F. Hews	157	dustry and the, Hon. William Spry	539	Mine Drainage Standardization, J.	
California, Placer County Empire,		Geologic Data in Copper Mines,			168
P. B. Goss		Standardization of Methods of		Mine Excavating Equipment, Stand-	
Coal, An Accountant's Review of,	000	Observing and Recording, Louis		ardization of, Harvey T. Gracely	485
George H. Cushing	429	E. Reber, Jr	349	Mine Hoists, Standardization of,	
Coal and a Department of Mines	85	Geologic Data in Mines Other Than			223
Coal Association Growing Pains,	-	Copper, Guy N. Biorge	343	Mine Pumps, What Standardization	
George H. Cushing	318	Geological Survey, What it is Doing for the Mining Industry, George		of, Means to Owners and Opera-	
Coal Distribution, The Problem of,		for the Mining Industry, George		tors, F. L. Atwood	51
Harry N. Taylor	205	Otis Smith	456	Mine Management and Continued	
Coal Dust, Occurrence, Character-		Gold and Silver Problems Outlined	129	Existence, George H. Cushing	154
istics and Behavior of, J. W. Paul	294	Gold Dredging, History of in Oro-		Mine Pumps, Metals Used in, G. A.	
Coal Handling Equipment, Stand-	-	ville, Lewis E. Aubury	357	Drysdale	47
ardizing Outside, H. D. Smith	183	Gold Mines, Amador County-Home		Miners' Attitude Toward Industrial	
ardizing Outside, H. D. Smith Coal Information Which Misleads		of Big, Harold Tallon	317	Cooperation, Theodore Marvin	420
Users, George H. Cushing	538	Governmental Relation to Business,		Mine Safety, Some Problems of,	
Coal in Power Development	361	Dr. Henry M. Payne	458	Dr. T. T. Read	473
Coal in the Campaign, George H.		Homestake Mine-Example in In-		Mine Timbering and Preservatives	
	359	dustrial Cooperation	79	in Europe, Notes On, George S.	
Coal Legislation, The Status of		Immigration Restriction Under the		Rice	98
Coal Mine Drainage, Standardiza-		Dillingham Quota Law	6	Mine Timbering, Serious and Costly	
tion of, J. H. Edwards	. 42	Imminence of an Oil Shale Industry		Problem	99
Coal Reserves and Taxes, The,		in the United States, Lester C.		Mine Timbers, Protection of From	
George H. Cushing	31		563	Fire, Harry E. Tufft	481
Coal's Political Prospects, George H.		Impossible Coal Objective, An,		Mine Timbers, Treating With Preservatives, George M. Hunt	1
Cushing	206	George H. Cushing	527	servatives, George M. Hunt	102

Mine Timbers, The Strength of, R. P. A. Johnson	President Coolidge's Message to Con-	Standardization Applied to Metal
Mine Ventilation Equipment, E. T.	Principles of Industrial Cooperation	4 Mining, Chas. A. Mitke 147 Standardization in Mining, Chas. A.
Lednum	Outlined	1 Mitke 433 Standardization Promotes Safety,
R. Campbell	ducers, W. Mont. Ferry 53	6 Rudolf Kudlich 477
Charles Haydock	Public Debt and Tax Burdens 6 Public Opinion and the Coal Indus-	Stabilizing the Mining Industry, Robert E. Tally 519
Montana—"The Treasure State," C. W. Towne	try, Harry N. Taylor 41	9 Steam Shovel, Superheated, H. B.
National Exposition of Coal Mine	Railroad Legislation, Congress and, McK. W. Kriegh 5	Oatley
Equipment	Rate Investigation Before Congress, McK. W. Kriegh	Morrison 550
Mine Equipment, E. C. Porter 522 Nationalizing Our Natural Re-	Reforestation Problem, Our, John	Europe, A. Cressy Morrison 24
sources, George H. Bailey 435	H. Haak 9 Revenue Act of 1924, Security	4 Taxability of Distributions in Liquidation 70
National Legislation439, 559 (See also "Legislative Review")	Holders and the, McK. W. Kriegh 28	9 Tax Laws, Responsibility for Un-
Natural Resources, Economic Utilization of, H. A. C. Jenison 351		workable, McK. W. Kriegh 424 Tracks for Open Pit Mines, W. R.
Natural Resources, Tax Problems in	Revenue Bill of 1924, The, McK. W. Kriegh	Brown 169
Relation to Reserves and Depletion of, Paul Armitage 251	Revenue Bureau Changes Affect	gressional Proposals 310
New Mexico, The Mining Industry and Mineral Resources of, E. H.	Mining Industry, McK. W. Kriegh 34	Transportation Ills Vanish as Oper- ating Efficiency Improves 471
Wells 397	Rock Dust, Actual Experiences With	Twenty-seventh Annual Convention,
Oil Shale Cycle Distillation Plant, The Trumble, Victor C. Alderson 450	and Tried Methods of Applying, J. E. Jones	Major Purposes of
Oil Shale in Foreign Countries, Vic-	Rock Dusting and Prevention of Coal Mine Explosions	Twenty-seventh Milestone, The 381
tor C. Alderson	Rock Dusting, Investigations into	George H. Cushing 261
tor C. Alderson	for Coal Dust Explosion Prevention, George S. Rice 29	Underground Transportation, Standardizing, D. F. Lepley
Alderson 283	Rock Dusting of Coal Mines, John T. Ryan	Underground Transportation, Stand-
Oil Shale, Steam Retorting of 560 Oil Production, Who Makes the	Rock Dust Versus Water as a Pre-	United Verde Copper Company's
Profits From, A. G. McLaughlin 561 Operating Costs, One Way of Re-	ventive Measure for Mine Explosions, Edward Steidle 29	Bonus Methods, W. V. DeCamp. 541 Utah's Mineral Wealth 395
ducing, C. H. Matthews 299	Safety Work, Securing Cooperation	West Virginia's Problem in Indus-
Ore Estimating in Mines Other Than Copper, J. Kruttschnitt, Jr. 348	of Employes in, Harold F. North 47 Silver Producers, Problems of	78 trial Cooperation, Josiah Keeley 303 What the Coal Industry Needs, S.
Organization and Cooperation in	American, W. Mont. Ferry 58 Silver Producers' Conference, A. G.	
American Industry, Hon. James J. Davis	Mackenzie 44	14 Bert F. Hews 355
Oroville Gold Dredging, History of, Lewis E. Aubury 357	South, Economic Survey of, Henry M. Payne	Workmen's Compensation and Metal Mining
Placer County Empire, P. B. Goss 385	Southern Mineral Resources, Eco-	World Famous Placers, R. F. Taylor 259
Power Equipment, Standardization of, H. F. Randolph	nomic Survey of the Undeveloped, Henry M. Payne	Yuba River District, California, History of, Frank H. Probert 554
Preliminaries to Coal Regulation, George H. Cushing	Standardization, Application of, to Metal Mining, Lucien Eaton 1	Zinc Mining Field, The World's Greatest, Julian D. Conover 408
deorge II. Ousning	•	or control of the state of the
	COAL	
Accident Statistics, Coal Mine. 187, 309	Coal Mine Drainage, Standardiza- tion of, J. H. Edwards	Ohio Coal Markets
Accountant's Review of Coal, An, Geo. H. Cushing	Coal Mining Lectures 4'	70 Preliminaries to Coal Regulation—
Anthracite Economy Service Orzan- ized	Coal Regulation Demand Subsides. 20	Geo. H. Cushing
Arctic Coal 521	Coal Reserves and Taxes, The, Geo.	try—Harry N. Taylor 419
Bituminous Coal and American Industry, Harry L. Gandy 427	Coal's Political Prospects, Geo. H.	Possersh in Plasting Coal I E
Bituminous Coal Industry, The,	Cushing 2 Coal Shortage Not Possible, Harry	Crawsnaw 327
F. R. Wadleigh	N. Taylor	Rock Dust, Actual Experiences With and Tried Methods of Applying,
solidations of, John C. Brydon 202	Coal Storage Cuts Price	29 J. E. Jones 291
Methods of, J. E. Tiffany and C.	Dead Reckoning in Coal, Geo. H. Cushing	Rock Dust Versus Water as a Pre- 14 ventive Measure for Mine Ex-
W. Nelson	Double Tracked Road to Coal Suc-	plosions, Edward Steidle 298
S. D. Warriner 33	cess, The, Geo. H. Cushing 4 Dry Cleaning Process for Coal 3	
Coal Association Growing Pains,	Explosion Hazards of Pulverized Coal	Coal Mine Explosions 222
Geo. H. Cushing 318	Has Coal a Public Interest?	69 plosion Prevention, Investigations
Coal Cleaning Studies	Illinois Coal, Screening of 1 Impossible Coal Objective, An, Geo.	into, George S. Rice
Harry N. Taylor 205	H. Cushing 5	T. Ryan 297
Coal Dust Explosion Prevention, Investigations with Rock Dusting	Increasing Lump Coal Production by Cushioned Blasting, J. H. Horlick 3	Safety Work in Coal Mining Fields 188
for, Geo. S. Rice 295	Lump Coal and Better Blasting	Handling Equipment — H. D.
Coal Dust, Occurrence, Character- istics and Behavior of, J. W. Paul 294	Methods, H. C. Adams	28 Smith
Coal Information Which Misleads Users, Geo. H. Cushing 538	Existence, Geo. H. Cushing 1	54 Two Slants at the Coal Problem-
Coal in Power Development 361	National Coal Association Annual Meeting70, 201, 2	Geo. H. Cushing
Coal in the Campaign, Geo. H. Cushing	National Exposition of Coal Mine	What the Coal Industry Needs-
Coal Legislation, Status of 121	Equipment	S. Pemberton Hutchinson 521

TAXATION

Coal Reserves and Taxes, The, George H. Cushing	Natural Resources, Tax Problems in Relation to Reserves and Depletion of, Paul Armitage	Security Holders and the Revenue Act of 1924, McK. W. Kriegh
	NATIONAL LEGISLATION	
Coal Legislation, The Status of 121 Congress to Convene, Second Session 68th 529 Copper Duty Bill Introduced in Congress 368 Dangerous Legislative Ethics* 287 Depletion and Depreciation under the 1924 Revenue Act, McK. W. Kriegh 155 Freight Rates, Legislation and* 144 Greater Safety in Mining Discussed 315 Immigration Committee, House, Concludes Hearings 61 Immigration Restriction under the Dillingham Quota Law 6	Intelligent Law-making the Only Solution to Income Tax Problems, McK. W. Kriegh	Revenue Act Submitted to Congress, Redraft of 29 Revenue Bill of 1924, McK. W. Kriegh 115 Safety Measures Considered 277 Senate Deadlock, The* 2 Tax Bill, Senate Finance Committee Reports 209 Tax Laws, Responsibility for Unworkable, McK. W. Kriegh 42 Tax Reduction* 110 Tax Revision Hearings, Ways and Means Committee Holds 64 Transportation Act Survives Congressional Proposals 310
Dillingham Quota Law 6	Revenue Act of 1924, The* 236	Word in Justice, A* 288
Accounting for Metal Mines, Standardized, H. H. Miller	STANDARDIZATION Metal Mining, The Application of Standardization to, Lucien Eaton 149 Metal Mining, Standardization Applied to, Chas. A. Mitke	Mine Hoists, Standardization of, J. J. Moore
	TANDARDA LA COODED LETON	
Application of a Common Principle* 233 Applied Industrial Cooperation	INDUSTRIAL COOPERATION Industrial Conciliation Law	Organization and Cooperation in American Industry—Hon. James J. Davis
Education and Industrial Unrest— J. S. Lutes	Miners' Attitude Toward Industrial Cooperation—Theodore Marvin 420 On Way to Industrial Peace 243	Camp

OIL AND OIL SHALE

	OIL AND OIL SHALE	
Bit Steel Used in Oil Drilling 452 Fundamentals of Shale—Delos D. Potter	Oil Shale In The United States— Victor C. Alderson	Persian Oil
	TRANSPORTATION	
Allied Industries*	Kriegh 207	Transportation Act Survives Congressional Proposals
	EDITORIALS	
One Thing Needful, The	World Measure of Values, The	Governmental Bureaus, The Function of
Silver's Opening Wedge 33		Word in Justice, A 288
	NEWS	
Arsenic Production in 1923 8 Asphalt and Related Bitumens in 1923 48 Barytes and Barium in 1923 35 Bauxite in 1923 63, 17 Blast Furnace Gases 52	1	Colorado Chapter Holds Annual Meeting
*Editorial.		

Copper in 1923		Magnesite in 192393, 217	Radio and Mine Accidents 280	
Electrical Code Approved, National	486	Manganese Ore in 1923 407	Rare Metals Important 85	
Electrical Equipment, Danger Haz-	444	Mechanical Loading	Resolutions Adopted at Sacramento Convention	
ard of Open Type		"Metallurgy of Copper" (Book Re-	Safety in Mining Discussed 315	
Engineers' Society President		view) 552	Safety Lamps	
Equipment Catalogs. 372, 449, 530,		Metal Mining During First Half of	Safety Measures Considered 277	
Evaporator, G-R Bentube	449	1924 363	Safety Statistics	
First Aid and Mine Rescue Contest,	405	Metal Mining in U. S. in 1923 71	Safety Supervision	
182, 228, 278,	437	Mica in 1923 432	Sand and Gravel Sold in 1923 434	
Forest Products Conference, 470,	EFF	Mine Inspectors' Institute Meets 279	Secondary Metals in 1923 350	
496 and		Mine Investigation Funds 26	Self-Rescuer Endorsed 156	
Fuller's Earth in 1923		Mine Machinery Suit 253	Silver Producers' Conference 444	
Gasoline Quality		Mine Rescue Contest 108	Silver Producers' Meeting 354	
Geological Survey, Mining Activi-		Mine Safety Board 411	Slag, Seek New Uses for 208	
Geologic Atlas, a New Folio of the	35	Mine Safety Conference 356	Smelter Slags, Losses in 182	
Gold and Silver Commission Secures	100	Mine Safety, Some Problems of 473	Spur Gear, Speed Transformer (Industrial Type)	
Mine Operators' Views	92	Mine Timbers (See "Standardiza- tion")		
Gold and Silver Inquiry Commission	04	Mining by Airplane 411	Steel Tests	
Hearings10,	54	Mining Course Now Open 30	Storage Battery Locomotives, Per-	
Gold and Silver Problems Outlined		Molyhdenum 130	missible	
Gold and Silver Production, 1923		Muscle Shoals, \$100,000,000 Offer	Sulphur and Pyrites in 1923 168	
Gold Basis Affected by Exchange		for 83	Tariff Association Meets 27	
Fluctuations		National Exposition of Mines and	Texas, Gold, Silver, Copper and Lead	
Gold, Silver, Copper and Lead in		Mine Equipment-E. C. Porter 522	in 1923 370	
Texas, 1923	350	National Legislation439, 559	Timbers, Timbering (See "Stand-	
Gold, The Life Restorer		(See Also "Legislative Review")	ardization")	
Government Reports		National Safety Council Meets 362	Titanium Better Than Silicon for	
Graphite in 1923		Natural Gas Line 280	Rail Steel 51	
Graphite		Natural Resource Industries An-	Twenty-Seventh Convention 501	
Group Insurance at Golden Rod Min-		alyze Common Problems 333	Twenty-Seventh Annual Convention	
ing and Smelting Corp,		New Mexico Chapter A. M. C.,	A. M. C., Major Purpose of 461	
Helium Reserve		Annual Meeting 549	Twenty-Seventh Annual Convention,	
Heroism, Award Medals for		New Mexico Chapter A. M. C.,	Program 385	
Immigration, House Committee Con-		Spring Meeting of	Twenty-Seventh Milestone, The 381	
Immigration Conference, National		New Mexico, Metals in 1924 394 Nitrogen 54	Union Carbide Case Dismissed 276 Universities Offer Fellowships 148	
Immigration Restriction Under Dil-		Nordberg, Dr. Bruno V., Death	Utah Chapter A. M. C., Annual	
lingham Quota Law		Notice 570	Meeting of	
Industrial Prosperity Seems Assured		"One Thing Needful, The," Edi-	Utah, Experiments at University of 180	
Iron Blast Furnace, Experimental.		torial Comment 452	Utah's Mineral Wealth 395	
Iron Industry in 1923		Patents 52	Vanadium Deposits	
Iron Ore Benefication Studies		Peat Produced in 1923 575	Wage Agreement Decision 10	
Iron Ore Produced in 1923	81	"Pittsburgh Plus" Hearing Before	War Mineral Claims, Status of 46	
Interior Department Poster		Trade Commission 332	Wastage of Men 372	
Labor Efficiency		Pneumatic Drill, New Size "D" 220	Western Division, Board of Gover-	
Lamps, Enclosed	330	Potash as a By-Product in the Blast	nors Meeting 305	
Lamps, Miners'	177	Furnace Industry, Recovering 22	Western Division, Resolution Pro-	
Lead and Zinc in 1923		Potash Survey	posed by	
Lead and Zinc Pigments and Salts		President Coolidge's Message to A.	West Virginia-Kentucky Meeting. 572	
Sold in U. S. in 1923		M. C. Convention 49	W. Va. Mine Operators' Association 250	
Lead Complaint Dismissed		President Coolidge's Message to	Wood Preservation, To Study 350	
Lead in 1923 Lead Pipe and Bar-Sheet Lead	520	Presidential Candidates, Principles	Wood Utilization Conference496, 557	
Legislative Review, 14, 86, 122, 161		of	World's Deepest Mines, The 229 Worm Box, Jones Double Thrust. 449	
210, 255 and	321	Production Increased	Zinc Compounds	
(See also "National Legislation"	")	Public Lands	Zinc Institute in Annual Session 254	
Legislative Summary, 68th Con		Public Lands Sale		
gress440	. 443	Public Lands, Unappropriated 57		
Locomotives, Mining and Industria		Pyrites in 1923, Sulphur and 16		
INDEX OF AUTHORS				
Adams, H. C		Ferry, W. Mont		
Alderson, Victor C283, 331, 37 Armitage, Paul		Gandy, Harry L 42		
		Goss, P. B		
Atwood, F. L		Gracely, Harvey T173, 48		
Aubury, Lewis E		Haak, John H		
Bjorge, Guy N		Hallock, John W		
Brown, W. R		Hews, Bert F157, 305, 355, 38		
Brunschyler, John		Holveck, J. E		
Brydon, John C		Hoover, Hon. Herbert 49		
Campbell, J. R		Horlick, J. H., Jr 32		
Cates, L. S		Hunt, George M 10		
Conover, Julian D		Hutchinson, S. Pemberton 52		
Coolidge, President Calvin	. 495	Jenison, H. A. C 3		
Crawshaw, J. E	-	I D A	Morrison, A. Cressy	
Cushing, George H 31, 67, 114, 15	. 327	Johnson, J. B 4		
206 261 212 250 400 400 50	. 327 4,	Johnson, R. P. A	6 Munroe, Dr. Charles E 467	
206, 261, 318, 359, 429, 469, 52 Davis Hop James J	. 327 4, 7, 538	Johnson, R. P. A.	6 Munroe, Dr. Charles E	
Davis, Hon. James J8	. 327 4, 7, 538 0, 241	Johnson, R. P. A	6 Munroe, Dr. Charles E	
Davis, Hon. James J8 DeCamp, William V	. 327 4, 7, 538 0, 241 . 541	Johnson, R. P. A. 9 Jones, J. E. 22 Keeley, Josiah. 30 Kidder, S. J. 30	6 Munroe, Dr. Charles E. 467 1 Murrill, R. T. 178 3 Nelson, C. W. 33 1 North, Harold F. 478	
Davis, Hon. James J8	327 4, 7, 538 0, 241 . 541 . 47	Johnson, R. P. A	66 Munroe, Dr. Charles E. 467 1 Murrill, R. T. 178 3 Nelson, C. W. 330 1 North, Harold F. 478 0 atley, H. B. 170 5 Officer, C. B. 181	
Davis, Hon. James J	327 4, 7, 538 0, 241 . 541 . 47 . 149	Johnson, R. P. A	66 Munroe, Dr. Charles E. 467 1 Murrill, R. T. 178 3 Nelson, C. W. 330 1 North, Harold F. 478 0 atley, H. B. 170 5 Officer, C. B. 181	

Payne, Dr. Henry M119, 412, 458	Seaman, H. W 497	Thomas, Eugene 404
Porter, E. C	Sloan, Hon. William 568	Tiffany, J. E
Potter, Delos D 106	Smith, George Otis 456	Towne, C. W 401
Probert, Frank H 554	Smith, H. D 183	Tufft, Harry E 481
Randolf, H. F 175	Spry, Hon. William 539	Uren, Lester C 563
Read, Dr. T. T 473	Steidle, Edward	Wadleigh, F. R 198
Rea, Samuel 421	Tallon, Harold	Warriner, Samuel D 33
Reber, Lewis E., Jr 349	Tally, Robert E	Wells, E. H 397
Root, Lloyd L 389	Taylor, Harry N	Wheat, J. C 171
Rice, George S	Taylor, J. E	Whitney, A. W
Ryan, John T 297	Taylor, R. F	Woody, G. V 166
	ILLUSTRATIONS	
	ILLUSIKATIONS	
4.1 TT C 10F	C-11 D-1-	D C
Adams, H. C	Gold Dredge357, 555	Rea, Samuel 421
Air Cleaning Plant, Wyoming Coal	Great Falls of the Potomac341 ff.	Republic Gold Mine, Washington 77
Company 311	Green, Hon. William R 29	Rice, George S195, 295
Alaska	Greensfelder, N. S	Richardson, C. F 244
Scenes in		
Scenes In	Henning, E. J 502	Richardson, Gov. Friend W 506
Treadway Mine 457	Hoch, Hon. Homer 207	Riddell, Guy C 448
American Pneumatic Separator 313	Homestake Mining Company, Lead,	Roberts, W. R 195
Anaconda Plant at Great Falls,	South Dakota79, 481	Rock Dusting, Lighting Effect of 295
Montana 74	Hoover, Hon. Herbert	
Montana		Rock Dusting Machine 291
Annual Banquet, A. M. C 517	House of Representatives, Capitol	Rock Dusting in England 294
Arizona	Building, Washington, D. C 14	Ryan, John T 297
Miami Plant and Concentrator 416	Hutchinson, S. Pemberton249, 382	Scholz, Carl
San Francisco Peaks 388 ff.	Hydraulic Mining at Auburn, Calif. 516	Seaman, H. W
Ashurst, Senator H. F	Idaho, Sawtooth Mountains388 ff.	Shirkie, Hugh
Bain, H. Foster 504	Immigration Committee, Senate 19	Shortridge, Senator Samuel M 506
Becker, Ralph C 197	Internal Revenue Department Bldg. 36	Shoup, Paul 507
Bills, Charles B 504	Jarvis, Clarence E	Sloan, Hon. William 568
Bjorge, Guy N 343	Jennings, Sidney J	Smith, George Otis 456
Boyle, Emmett D	Joslin, Falcon	Southern Super-Power Zone (Map) 84
		Southern Super-Power Zone (Map) 84
Bradley, J. G 193	Kansas-Oklahoma Mining Field,	Special Train, American Mining
Brydon, John C 203	Pitcher, Oklahoma (Panorama) 408	Congress
Buchanan, Robert 505	Kidder, S. J 301	Spry, Hon. William 539
Bunker Hill and Sullivan Lead	King, Senator Wm. H	Stahl, George A 309
Constant Idaha Sumvan Leau		Ctaal Furnasa Flasteia
Smelter, Idaho 74	Koepler, W. E. E	Steel Furnace, Electric 414
California	Lakenan, C. B 553	Steidle, Edward 298
Carson Hill Gold Mines 391	Langley, A. G 568	Sutters Fort, California 160
Downieville, Views Around 388	Lee Mansion, Home of Robert E.	Tally, Robert E305, 519
Emerald Bay, Lake Tahoe 390	Lee	Taylor, Harry N
		Townson Electric D
Glacier National Park 388 ff.	Lewisohn, Sam A	Tennessee Electric Power Co 412
Gold Bluff Mine 259	Lindsey, William H 383	Timber Dipping Plant (Drawings). 103
Grass Valley 387	Locomotive Crane171, 172	Timber, Framing Charts 101
King's River388 ff.	"Long" Bridge Across the Potomac	Timbering in Roadways and Air
Merced River and Vernal Falls.388 ff.	at Washington289 ff.	Courses (Drawing) 100
Mount Shasta388 ff., 389	Long, Lee	Timbers Recommended (Chart) 100
Sacramento, Scenes in388 ff.	Loring, William J239, 383, 498	Timber Treating Plant, Homestake
Sierra Nevadas 405	Lutes, J. S 417	Mine 481
State Capitol Building, Sacra-	Mackenzie, A. G	Timber Treating Plant, Colorado
mento157, 380	McDonald, Jesse F 507	Fuel & Iron Co 102
Two Medicine Lake388 ff.	McGrath, T. O 505	Tonographical Engineers in the
	M. T	Topographical Engineers in the
Cameron, Senator R. H 17	McLaughlin, A. G 561	Field, U. S 351
Capitol Building, Washington, D. C. 85	Matthews, C. H 299	Treasury, United States11 ff.
Cates, Louis Shattuck237, 383, 491	Mesabe Iron Range171, 347, 485	Twenty-Seventh Annual Convention.
Cathedral of St. Paul and St. Peter,	Minerals Division, Department of	Delegates
Washington, D. C	Commerce (Chart) 448	Underground Transportation, Solid
Cherry Blossom Time in Washing-		Cast From (Drawing) 100
therry blossom time in washing-	Mines and Mining Committee, Sen-	Cast Frog (Drawing) 139
ton	ate	Underground Transportation, Split
C. & O. Canal, Georgetown, Wash-	Minnesota, Iron Ore Mine on Cu-	Switches (Drawings), 135, 136, 137 and
ington, D. C427 ff.	yuna Range 418	137 and
Colorado	Mitke, Chas. A 147	United Verde Copper Co., Jerome,
Cresson Gold Mine, Cripple Creek	Montgomery Mine, Alabama 413	Arizona
District 73	Morrison, A. Cressy24, 551	Unknown Soldier's Grave at Arling-
		ton Vo
Portland Gold Mines, Cripple	Mount Vernon, Virginia469 ff.	ton, Va
Creek 403	Muscle Shoals, Spillway Section of	Utah Copper Co
Smuggler Mill, Telluride 394		***
0 1 1 D: D 11 0 000		Utah
Colorado River, Boulder Canvon. 369	Wilson Dam 83	Utah Silver King Mine
Colorado River, Boulder Canyon. 369 Colorado Telluride 392	Wilson Dam	Silver King Mine 395
Colorado, Telluride 392	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504	Silver King Mine
Colorado, Telluride	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine	Silver King Mine 395 Daly West Mine 445 Park City District 396
Colorado, Telluride	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199
Colorado, Telluride	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276 Neslen, C. Clarence. 505	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J 17
Colorado, Telluride	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199
Colorado, Telluride	Wilson Dam 83 Nason, A. J 193 Nathan, M. W 504 National Exposition Coal Mine Equipment, Exhibits 263, 272, 276 Neslen, C. Clarence 505 Oddie, Senator Tasker L 17, 503	Silver King Mine. 395 Daly West Mine. 445 Park City District. 396 Wadleigh, F. R 199 Walsh, Senator Thos. J 17 Warriner, Samuel D 34
Colorado, Telluride 392 Coolidge, Calvin 4, 494 Creosoting Plant of the C. W. & F. 6 Coal Co., Illinois (Drawings) 104 Cushing, George H 429 Daly, William B 134	Wilson Dam 83 Nason, A. J 193 Nathan, M. W 504 National Exposition Coal Mine Equipment, Exhibits 263, 272, 276 Neslen, C. Clarence 505 Oddie, Senator Tasker L 17, 503 Parades in Sacramento and Auburn,	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J 17 Warriner, Samuel D. 34 Washington Monument 188
Colorado, Telluride	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276 Neslen, C. Clarence 505 Oddie, Senator Tasker L. 17, 503 Parades in Sacramento and Auburn, Calif., 503, 504, 505, 510, 511, 512, 516	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J 17 Warriner, Samuel D 34 Washington Monument 188 Wells, Bulkeley 499
Colorado, Telluride. 392 Coolidge, Calvin. 4, 494 Creosoting Plant of the C. W. & F. 104 Coal Co., Illinois (Drawings) 104 Cushing, George H. 429 Daly, William B. 134 Davis, Hon. James J. 241 Doheny, E. L. 499	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276 Neslen, C. Clarence 505 Oddie, Senator Tasker L. 17, 503 Parades in Sacramento and Auburn, Calif., 503, 504, 505, 510, 511, 512, 516 Paul, J. W. 294	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J 17 Warriner, Samuel D 34 Washington Monument 188 Wells, Bulkeley 499 Wentz, Daniel B 193 48
Colorado, Telluride. 392 Coolidge, Calvin. 4,494 Creosoting Plant of the C. W. & F. 104 Coal Co., Illinois (Drawings) 104 Cushing, George H. 429 Daly, William B. 134 Davis, Hon. James J. 241 Doheny, E. L. 499 Eaton, Lucien. 149	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276 Neslen, C. Clarence 505 Oddie, Senator Tasker L 17, 503 Parades in Sacramento and Auburn, Calif., 503, 504, 505, 510, 511, 512, 516 Paul, J. W. 294 Penna, Phil A. 397	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J 17 Warriner, Samuel D. 34 Washington Monument 188 Wells, Bulkeley 499 Wentz, Daniel B. 193, 498 West Kentucky Coal Co., Sturgis
Colorado, Telluride. 392 Coolidge, Calvin. 4, 494 Creosoting Plant of the C. W. & F. 104 Coal Co., Illinois (Drawings) 104 Cushing, George H. 429 Daly, William B. 134 Davis, Hon. James J. 241 Doheny, E. L. 499	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276 Neslen, C. Clarence 505 Oddie, Senator Tasker L. 17, 503 Parades in Sacramento and Auburn, Calif., 503, 504, 505, 510, 511, 512, 516 Paul, J. W. 294	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J 17 Warriner, Samuel D. 34 Washington Monument 188 Wells, Bulkeley 499 Wentz, Daniel B. 193, 498 West Kentucky Coal Co., Sturgis
Colorado, Telluride. 392 Coolidge, Calvin. 4, 494 Creosoting Plant of the C. W. & F. 6 Coal Co., Illinois (Drawings) 104 Cushing, George H. 429 Daly, William B. 134 Davis, Hon. James J. 241 Doheny, E. L. 499 Eaton, Lucien. 149 Easton, Stanly A. 499	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276 Neslen, C. Clarence 505 Oddie, Senator Tasker L. 17, 503 Parades in Sacramento and Auburn, Calif., 503, 504, 505, 510, 511, 512, 516 Paul, J. W. 294 Penna, Phil A. 397 Phipps, Senator L. C. 17	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J 17 Warriner, Samuel D. 34 Washington Monument 188 Wells, Bulkeley 499 Wentz, Daniel B. 193, 498 West Kentucky Coal Co., Sturgis
Colorado, Telluride 392 Coolidge, Calvin 4, 494 Creosoting Plant of the C. W. & F. 104 Coal Co., Illinois (Drawings) 104 Cushing, George H. 429 Daly, William B. 134 Davis, Hon. James J. 241 Doheny, E. L. 499 Eaton, Lucien 149 Easton, Stanly A. 499 Electric Shovel 174, 485	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276 Neslen, C. Clarence 505 Oddie, Senator Tasker L. 17, 503 Parades in Sacramento and Auburn, Calif., 503, 504, 505, 510, 511, 512, 516 Paul, J. W. 294 Penna, Phil A. 397 Phipps, Senator L. C. 17 Pittman, Senator Key. 17	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J. 17 Warriner, Samuel D. 34 Washington Monument 188 Wells, Bulkeley 499 Wentz, Daniel B. 193, 498 West Kentucky Coal Co., Sturgis, Ky Ky 243 West Virginia, Raleigh Wyoming
Colorado, Telluride. 392 Coolidge, Calvin. 4, 494 Creosoting Plant of the C. W. & F. 104 Coal Co., Illinois (Drawings) 104 Cushing, George H. 429 Daly, William B. 134 Davis, Hon. James J. 241 Doheny, E. L. 499 Eaton, Lucien. 149 Easton, Stanly A. 499 Electric Shovel. 174, 485 Elkins, Senator Davis 17	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276 Neslen, C. Clarence. 505 Oddie, Senator Tasker L. 17, 503 Parades in Sacramento and Auburn, Calif., 503, 504, 505, 510, 511, 512, 516 Paul, J. W. 294 Penna, Phil A. 397 Phipps, Senator L. C. 17 Pittman, Senator Key. 17 Placer Mining in California. 317, 411	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J 17 Warriner, Samuel D 34 Washington Monument 188 Wells, Bulkeley 499 Wentz, Daniel B 193, 498 West Kentucky Coal Co., Sturgis, Ky 243 West Virginia, Raleigh Wyoming Coal Co. 420
Colorado, Telluride 392 Coolidge, Calvin 4, 494 Creosoting Plant of the C. W. & F. 104 Coal Co., Illinois (Drawings) 104 Cushing, George H 429 Daly, William B 134 Davis, Hon. James J 241 Doheny, E. L 499 Eaton, Lucien 149 Easton, Stanly A 499 Electric Shovel 174, 485 Elkins, Senator Davis 17 Exhibits at Exposition, Sacra-	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276 Neslen, C. Clarence. 505 Oddie, Senator Tasker L. 17, 503 Parades in Sacramento and Auburn, Calif., 503, 504, 505, 510, 511, 512, 516 Paul, J. W. 294 Penna, Phil A. 397 Phipps, Senator L. C. 17 Pittman, Senator Key. 17 Placer Mining in California 317, 411 Potomac Park, Bridle Path, Wash-	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J 17 Warriner, Samuel D. 34 Washington Monument 188 Wells, Bulkeley 499 Wentz, Daniel B. 193, 498 West Kentucky Coal Co., Sturgis, Ky. 243 West Virginia, Raleigh Wyoming Coal Co. 420 White Caps Gold Mine, Nevada 76
Colorado, Telluride. 392 Coolidge, Calvin. 4, 494 Creosoting Plant of the C. W. & F. 6. Coolidge, Calvin. 104 Creosoting Plant of the C. W. & F. 104 Cushing, George H. 429 Daly, William B. 134 Davis, Hon. James J. 241 Doheny, E. L. 499 Eaton, Lucien. 149 Easton, Stanly A. 499 Electric Shovel. 174, 485 Elkins, Senator Davis. 17 Exhibits at Exposition, Sacramento 522, 524, 525, 526	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276 Neslen, C. Clarence 505 Oddie, Senator Tasker L. 17, 503 Parades in Sacramento and Auburn, Calif., 503, 504, 505, 510, 511, 512, 516 Paul, J. W. 294 Penna, Phil A. 397 Phipps, Senator L. C. 17 Pittman, Senator Key 17 Placer Mining in California 317, 411 Potomac Park, Bridle Path, Washington, D. C. 215 ff.	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J 17 Warriner, Samuel D 34 Washington Monument 188 Wells, Bulkeley 499 Wentz, Daniel B 193, 498 West Kentucky Coal Co., Sturgis, Ky Ky 243 West Virginia, Raleigh Wyoming Coal Co 420 White Caps Gold Mine, Nevada 76 White House, Washington, D C.
Colorado, Telluride. 392 Coolidge, Calvin. 4, 494 Creosoting Plant of the C. W. & F. 104 Cushing, George H. 429 Daly, William B. 134 Davis, Hon. James J. 241 Doheny, E. L. 499 Eaton, Lucien. 149 Easton, Stanly A. 499 Elkins, Senator Davis. 17 Elkins, Senator Davis. 17 Exhibits at Exposition, Sacramento 522, 524, 525, 526 Fan, Method of Ventilating With. 186	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276 Neslen, C. Clarence. 505 Oddie, Senator Tasker L. 17, 503 Parades in Sacramento and Auburn, Calif., 503, 504, 505, 510, 511, 512, 516 Paul, J. W. 294 Penna, Phil A. 397 Phipps, Senator L. C. 17 Pittman, Senator Key. 17 Placer Mining in California. 317, 411 Potomac Park, Bridle Path, Washington, D. C. 215 ff. Raleigh-Wyoming Coal Co., West	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J 17 Warriner, Samuel D 34 Washington Monument 188 Wells, Bulkeley 499 Wentz, Daniel B 193, 498 West Kentucky Coal Co., Sturgis, Ky 243 West Virginia, Raleigh Wyoming Coal Co 240 White Caps Gold Mine, Nevada 76 White House, Washington, D C, 67 ff., 527 ff. and 549
Colorado, Telluride. 392 Coolidge, Calvin. 4, 494 Creosoting Plant of the C. W. & F. 104 Coal Co., Illinois (Drawings) 104 Cushing, George H. 429 Daly, William B. 134 Davis, Hon. James J. 241 Doheny, E. L. 499 Eaton, Lucien. 149 Easton, Stanly A. 499 Electric Shovel. 174, 485 Elkins, Senator Davis 17 Exhibits at Exposition, Sacramento 522, 524, 525, 526 Fan, Method of Ventilating With. 186 Ferry, W. Mont. 537	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276 Neslen, C. Clarence 505 Oddie, Senator Tasker L. 17, 503 Parades in Sacramento and Auburn, Calif., 503, 504, 505, 510, 511, 512, 516 Paul, J. W. 294 Penna, Phil A. 397 Phipps, Senator L. C. 17 Pittman, Senator Key. 17 Placer Mining in California 317, 411 Potomac Park, Bridle Path, Washington, D. C 215 ff. Raleigh-Wyoming Coal Co., West Virginia 420	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J 17 Warriner, Samuel D. 34 Washington Monument 188 Wells, Bulkeley 499 Wentz, Daniel B. 193 West Kentucky Coal Co., Sturgis, Ky. 243 West Virginia, Raleigh Wyoming Coal Co. 420 White Caps Gold Mine, Nevada 76 White House, Washington, D. C., 67 ff., 527 ff. and 549 Wright, F. P. 245
Colorado, Telluride. 392 Coolidge, Calvin. 4, 494 Creosoting Plant of the C. W. & F. 104 Coal Co., Illinois (Drawings) 104 Cushing, George H. 429 Daly, William B. 134 Davis, Hon. James J. 241 Doheny, E. L. 499 Eaton, Lucien. 149 Easton, Stanly A. 499 Electric Shovel. 174, 485 Elkins, Senator Davis 17 Exhibits at Exposition, Sacramento 522, 524, 525, 526 Fan, Method of Ventilating With. 186 Ferry, W. Mont. 537	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276 Neslen, C. Clarence. 505 Oddie, Senator Tasker L. 17, 503 Parades in Sacramento and Auburn, Calif., 503, 504, 505, 510, 511, 512, 516 Paul, J. W. 294 Penna, Phil A. 397 Phipps, Senator L. C. 17 Pittman, Senator Key. 17 Placer Mining in California. 317, 411 Potomac Park, Bridle Path, Washington, D. C. 215 ff. Raleigh-Wyoming Coal Co., West	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J 17 Warriner, Samuel D. 34 Washington Monument 188 Wells, Bulkeley 499 Wentz, Daniel B. 193 West Kentucky Coal Co., Sturgis, Ky. 243 West Virginia, Raleigh Wyoming Coal Co. 420 White Caps Gold Mine, Nevada 76 White House, Washington, D. C., 67 ff., 527 ff. and 549 Wright, F. P. 245
Colorado, Telluride	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276 Neslen, C. Clarence. 505 Oddie, Senator Tasker L. 17, 503 Parades in Sacramento and Auburn, Calif., 503, 504, 505, 510, 511, 512, 516 Paul, J. W. 294 Penna, Phil A. 397 Phipps, Senator L. C. 17 Pittman, Senator Key. 17 Placer Mining in California. 317, 411 Potomac Park, Bridle Path, Washington, D. C. 215 ff. Raleigh-Wyoming Coal Co., West Virginia 420 Ramstedt, A. P. 509	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J 17 Warriner, Samuel D. 34 Washington Monument 188 Wells, Bulkeley 499 Wentz, Daniel B. 193, 498 West Kentucky Coal Co., Sturgis, 549 West Virginia, Raleigh Wyoming 420 Coal Co. 420 White Caps Gold Mine, Nevada 76 White House, Washington, D. C. 67 ff., 527 ff. and 549 Wright, F. P. 245 Wyoming, Washakie, Needles 388 ff.
Colorado, Telluride. 392 Coolidge, Calvin. 4, 494 Creosoting Plant of the C. W. & F. 104 Coal Co., Illinois (Drawings) 104 Cushing, George H. 429 Daly, William B. 134 Davis, Hon. James J. 241 Doheny, E. L. 499 Eaton, Lucien. 149 Easton, Stanly A. 499 Electric Shovel. 174, 485 Elkins, Senator Davis 17 Exhibits at Exposition, Sacramento 522, 524, 525, 526 Fan, Method of Ventilating With. 186 Ferry, W. Mont. 537	Wilson Dam. 83 Nason, A. J. 193 Nathan, M. W. 504 National Exposition Coal Mine Equipment, Exhibits. 263, 272, 276 Neslen, C. Clarence 505 Oddie, Senator Tasker L. 17, 503 Parades in Sacramento and Auburn, Calif., 503, 504, 505, 510, 511, 512, 516 Paul, J. W. 294 Penna, Phil A. 397 Phipps, Senator L. C. 17 Pittman, Senator Key. 17 Placer Mining in California 317, 411 Potomac Park, Bridle Path, Washington, D. C 215 ff. Raleigh-Wyoming Coal Co., West Virginia 420	Silver King Mine 395 Daly West Mine 445 Park City District 396 Wadleigh, F. R. 199 Walsh, Senator Thos. J 17 Warriner, Samuel D. 34 Washington Monument 188 Wells, Bulkeley 499 Wentz, Daniel B. 193 West Kentucky Coal Co., Sturgis, Ky. 243 West Virginia, Raleigh Wyoming Coal Co. 420 White Caps Gold Mine, Nevada 76 White House, Washington, D. C., 67 ff., 527 ff. and 549 Wright, F. P. 245